Claims

1. A method for directing packet entities, said method comprising the steps of:

receiving a first packet entity;

determining that the packet entity is part of a second packet entity

checking if the first packet entity contains information relating to the direction of said entity;

storing at least part of said first packet entity; and

directing said first packet entity in accordance with said information.

2. A method of claim 1, comprising further steps of:

receiving a third packet entity;

checking if the third packet entity is part of the second packet entity; and

forwarding said third packet entity in accordance with said stored information.

- 20 3. A method as claimed in claim 1 or 2, wherein said method is arranged to direct a packet entity to a required bearer of a plurality of bearers.
- 4. A method as claimed in claim 1,2 or 3 wherein said packet entity is a fragmented packet.

- 5. A method as claimed in claim 4, comprising the step of determining if the packet is a fragmented packet.
- 5 6. A method as claimed in claim 3 or any claim appended thereto, wherein said checking step comprises checking if said packet entity contains information relating to the required bearer.
- 7. A method of claim 6, wherein the information is at least one of source address, destination address, and identification in a fragment header.
- 8. A method as claimed in any preceding claim, wherein the storing step comprises storing at least one of a source port, a destination port, and identification in a fragment header.
- A method as claimed in claim 5 or any claim appended thereto, comprising the step of storing fragmentation related
 information contained in said packet entity.
 - 10. A method as claimed in any preceding claim, comprising the step of receiving another packet entity after a packet entity containing said direction information has been received and directing said another packet entity in accordance with the direction information.

25

11. A method for directing a first set of mutually related packet entities, the first set containing a second set of mutually related packet entities; the packet entities of the second set containing information relating to the direction of said packet entities; the second set of packet entities containing at least one packet entity,

said method comprising the steps of:

receiving at least one of said packet entities;

determining that the at least one packet entity belongs to the first set of mutually related packets;

determining that the at least one packet entity does not belong to the second set of packet entities; and

storing at least part of one of the at least one packet entity.

15

12. A method according to claim 11, comprising further steps of

storing the at least one packet entity.

20 13. A method as claimed in claim 11 or 12, comprising the further steps of

receiving at least one further packet entity;

determining that the at least one further packet entity received belongs to the second set of packet entities;

25 and

directing said packet entities in accordance with said information contained in the at least one further packet entity.

- 5 14. A method as claimed in any of claims 11 to 13, wherein said at least one packet entity is stored until said required direction has been determined.
- 15. A method as claimed in any of claims 11 to 14, wherein 10 when at least one packet entity has been stored for a predetermined time and said required direction has not been determined, a direction in which said at least one packet entity is to be sent is selected and said at least one packet entity is sent in said selected direction.

15

16. A method as claimed in any of claims 11 to 15, wherein when at least one packet entity has been stored for a predetermined time and said required direction has not been determined, said at least one packet is removed from a store.

20

25

17. A method as claimed in any of claims 11 to 16, wherein if a store storing said at least one packet entity has more than a predetermined amount of data stored therein, a direction in which said at least one packet entity is to be sent is selected and said at least one packet is sent in said selected direction.

18. A method as claimed in any of claims 11 to 17, wherein if a store storing said at least one packet entity has more than a predetermined amount of data stored therein said at least one packet is removed from said store.

5

25

- 19. A method as claimed in any of claims 11 to 18, wherein information from a header of at least one packet entity is stored.
- 10 20. A method as claimed in claim 19, wherein said stored information comprises at least one of the following:

source address; destination address and identification information.

- 15 21. A method as claimed in any of claims 11 to 20, wherein said direction comprises a PDP context and/or one of a plurality of bearers and/or a bearer.
- 22. A method as claimed in any of claims 11 to 21, wherein 20 said direction information comprises said destination address.
 - 23. Apparatus for directing a plurality of related packet entities, only one or some of said packet entities containing information relating to the direction of said packet entities, said apparatus comprising:

-

means for receiving said plurality of packet entities;

means for determining a required direction address from at least two of said packet entities containing said information; and

means for directing said plurality of related packet entities in the required direction.

- 24. Apparatus as claimed in claim 23, wherein said apparatus is usable as a node in a packet switched network.
- 10 25. Apparatus as claimed in claim 24, wherein said network is a GPRS network.
 - 26. Apparatus as claimed in any of claims 23 to 25, wherein said apparatus is a GGSN.

15

- 27. A method for directing a packet to a required bearer of a set of bearers, the method comprising the steps of:
- (a) receiving the packet;
- 20 (b) checking if the packet is a fragmented packet and if it is,
 - (c) checking if the packet comprises information related to selection of the required bearer and if it does,
- 25 storing fragmentation related information contained in the packet.

- 28. A method according to claim 27, comprising the further step of
- 5 forwarding the packet to the required bearer;
 - 29. A method according to claim 27 or 28, further comprising the steps

receiving a second packet

- 10 forwarding said second packet to the required bearer based on the fragmentation related information.
 - 30. A method for directing a packet to a required bearer of a set of bearers, the method comprising the steps of:
- 15 (a) receiving the packet;
 - (b) checking if the packet is a fragmented packet and if it is,
- 20 (c) checking if the packet comprises information related to selection of the required bearer

and if it does not, storing fragmentation related information contained in the packet; and

storing said packet.

31. A method of claim 30 further comprising steps of:

receiving another packet containing information related to the selection of the required bearer; and

forwarding another packet and the stored packet(s) to the required bearer.

32. A method for directing packet entities, said method 10 comprising the steps of:

receiving a first packet entity;

5

checking if the first packet entity contains information relating to the direction of said entity;

storing at least part of said first packet entity; and

- directing said first packet entity in accordance with said information.
- 33. Apparatus for directing a first set of mutually related packet entities, the first set containing a second set of 20 mutually related packet entities; the packet entities of the second set containing information relating to the direction of said packet entities; the second set of packet entities containing at least one packet entity,

said apparatus comprising:

25 means for receiving at least one of said packet entities; means for determining that the at least one packet entity belongs to the first set of mutually related packets;

means for determining that the at least one packet entity does not belong to the second set of packet entities; and

5 means for storing at least part of one of the at least one packet entity.